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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|--------------------------|---------------------|------------------|
| 09/800,842 | 03/06/2001 | Mark Andrew George White | 05029.P002 | 3647 |

7590 12/20/2004

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EXAMINER

SONG, HOSUK

| | |
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| ART UNIT | PAPER NUMBER |
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2135

DATE MAILED: 12/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/800,842

Applicant(s)

WHITE ET AL.

Examiner

Hosuk Song

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 March 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-61 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 23-26 is/are allowed.
- 6) ☒ Claim(s) 1-22, 27-61 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 09800842.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-3,5-8,10-13,15-22,27-42,44-46,48-50,52-53,56-57,60-61 are rejected under 35 U.S.C. 102(e) as being anticipated by Iwamura(US 6,425,081).

Claims 1,2: Iwamura disclose encrypting a copy of at least one part of content having a first watermark and encrypting a copy of at least one part of the content having a second watermark in (col.11,lines 35-50). Iwamura disclose combining parts of the encrypted copy with the first watermark and parts of the encrypted copy with the second watermark in a manner unique for an individual client in (fig.5;col.10,lines 31-37).

Claim 3: Iwamura disclose distributing the combined parts to one or more clients on a network in (col.15,lines 13-18).

Claim 5: Iwamura disclose encrypting a neutral part of the content and combining parts of the encrypted neutral copy, parts of the encrypted copy with the first watermark and parts of the encrypted with the second watermark in a manner unique for an individual client in (col.10,lines 30-37;col.17,lines 34-53).

Claims 6,7: Iwamura disclose a storage device to store content in (fig.4). Iwamura disclose encrypting a copy of at least one part of content having a first watermark and encrypting a copy of at least one part of the content having a second watermark in (col.11,lines

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35-50). Iwamura disclose combining parts of the encrypted copy with the first watermark and parts of the encrypted copy with the second watermark in a manner unique for an individual client in (fig.5;col.10,lines 31-37).

Claim 8: Iwamura disclose distributing the combined parts to one or more clients on a network in (col.15,lines 13-18).

Claim 10: Iwamura disclose encrypting a neutral part of the content and combining parts of the encrypted neutral copy, parts of the encrypted copy with the first watermark and parts of the encrypted with the second watermark in a manner unique for an individual client in (col.10,lines 30-37;col.17,lines 34-53).

Claims 11,12: Iwamura disclose storing content in (fig.4). Iwamura disclose encrypting a copy of at least one part of content having a first watermark and encrypting a copy of at least one part of the content having a second watermark in (col.11,lines 35-50). Iwamura disclose combining parts of the encrypted copy with the first watermark and parts of the encrypted copy with the second watermark in a manner unique for an individual client in (fig.5;col.10,lines 31-37).

Claim 13: Iwamura disclose distributing the combined parts to one or more clients on a network in (col.15,lines 13-18).

Claim 15: Iwamura disclose scrambling a neutral part of the content and combining parts of the encrypted neutral copy, parts of the encrypted copy with the first watermark and parts of the encrypted with the second watermark in a manner unique for an individual client in (col.10,lines 30-37;col.17,lines 34-53).

Claim 16: Iwamura disclose encrypting a copy of at least one part of content having a first watermark and encrypting a copy of at least one part of the content having a second watermark in (col.11,lines 35-50). Iwamura disclose combining parts of the scrambled copy with

the first watermark and parts of the scrambled copy with the second watermark in a manner unique for an individual client in (fig.5;col.10,lines 31-37).

Claims 17-19:lwamura disclose a storage device to store an encrypted copy of at least one part of content watermarked with a first identifier and an encrypted copy of at least one part of the content watermarked with a second identifier in (col.11,lines 35-50). lwamura disclose a processing unit coupled to a storage device , the processing unit to combine parts of the encrypted copy watermarked with the first and second identifier unique to an individual client in (fig.5;col.10,lines 31-37).

Claim 20: lwamura disclose storage device is to store a client identification and a corresponding unique combination of watermarked copies for the client in (fig.3).

Claims 21-22: lwamura disclose scrambling a neutral part of the content and combining parts of the encrypted neutral copy, parts of the encrypted copy with the first watermark and parts of the encrypted with the second watermark in a manner unique for an individual client in (col.10,lines 30-37;col.17,lines 34-53).

Claim 27: lwamura disclose watermarking first and second copies of content with respective first and second watermarks in (col.11,lines 35-50).lwamura disclose encrypting the first copy of content using a first and second copy of the content using a second key and combining encrypted copies into a single stream data in (fig.5;col.10,lines 31-37;col.24,lines 10-15).

Claim 28: lwamura disclose multicasting the single stream of data to one or more clients in (col.15,lines 13-18).

Claims 29-31: lwamura disclose storing the unique keys and common in a database including an array matching the unique keys to the unique watermarks in (col.18,lines 58-67;col.19,lines 1-15).

Claim 32: Iwamura disclose a storage device to store content in (fig.5). Iwamura disclose a processing unit to watermark redundant parts in the content with one or more unique watermarks to encrypt the watermarked redundant parts using a unique key for each unique watermark and the remaining parts of the stream of content with a common key and to combine the encrypted parts into a single stream of data in (fig.5;col.10,lines 31-37;col.24,lines 10-15).

Claim 33: Iwamura disclose processing unit is to multicast the single stream of data to one or more clients in (fig.5 and col.24,lines 10-15).

Claims 34-36: Iwamura disclose storing the unique keys and common in a database including an array matching the unique keys to the unique watermarks in (col.18,lines 58-67;col.19,lines 1-15).

Claim 37: Iwamura disclose storing a content in (fig.5). Iwamura disclose a processing unit to watermark redundant parts in the content with one or more unique watermarks to encrypt the watermarked redundant parts using a unique key for each unique watermark and the remaining parts of the stream of content with a common key and to combine the encrypted parts into a single stream of data in (fig.5;col.10,lines 31-37;col.24,lines 10-15).

Claim 38: Iwamura disclose processing unit is to multicast the single stream of data to one or more clients in (fig.5 and col.24,lines 10-15).

Claims 39-41: Iwamura disclose storing the unique keys and common in a database including an array matching the unique keys to the unique watermarks in (col.18,lines 58-67;col.19,lines 1-15).

Claim 42: Iwamura disclose a processing unit to watermark redundant parts in the content with one or more unique watermarks to encrypt the watermarked redundant parts using a unique key for each unique watermark and the remaining parts of the stream of content with a

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common key and to combine the encrypted parts into a single stream of data in (fig.5;col.10,lines 31-37;col.24,lines 10-15).

Claim 44: Iwamura disclose watermarking first and second duplicates of a content portion with first and second identifiers and encrypting each of the first and second duplicates of the content portion with at least first and second keys in (fig.5 and col.11,lines 35-50). Iwamura disclose supplying both the first and second duplicates of the content portion to first and second users and supplying at least the first key to the first user and the second key to the second user, so that the first user is enabled to decrypt the first duplicates of the content portion watermarked with the first identifier, so that second user is enabled to decrypt the second duplicate of the content portion watermarked with the second identifier in (fig.5).

Claim 45: Iwamura disclose content includes text, audio, or video content in (col.1,lines 9-18).

Claim 46: Iwamura disclose supplying the first and second duplicates and keys via network in (fig.5 and col.10,lines 57-65).

Claim 48,52,53: Iwamura disclose watermarking first and second duplicates of a content portion with first and second identifiers and encrypting each of the first and second duplicates of the content portion with at least first and second keys in (fig.5 and col.11,lines 35-50). Iwamura disclose supplying both the first and second duplicates of the content portion to first and second users and supplying at least the first key to the first user and the second key to the second user, so that the first user is enabled to decrypt the first duplicates of the content portion watermarked with the first identifier, so that second user is enabled to decrypt the second duplicate of the content portion watermarked with the second identifier in (fig.5).

Claim 49: Iwamura disclose content includes text, audio, or video content in (col.1,lines 9-18).

Claim 50: Iwamura disclose supplying the first and second duplicates and keys via network in (fig.5 and col.10,lines 57-65).

Claim 56: Iwamura disclose content includes text, audio, or video content in (col.1,lines 9-18).

Claim 57: Iwamura disclose watermarking first and second duplicates of a content portion with first and second identifiers and encrypting each of the first and second duplicates of the content portion with at least first and second keys in (fig.5 and col.11,lines 35-50). Iwamura disclose supplying both the first and second duplicates of the content portion to first and second users and supplying at least the first key to the first user and the second key to the second user, so that the first user is enabled to decrypt the first duplicates of the content portion watermarked with the first identifier, so that second user is enabled to decrypt the second duplicate of the content portion watermarked with the second identifier in (fig.5).

Claims 60,61: Iwamura disclose content includes text, audio, or video content in (col.1,lines 9-18).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 4,9,14,47,51,54-55,58,59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwamura(US 6,425,081).

Claims 4,9,14,47,51,54-55,58,59: Iwamura does not specifically disclose network includes an Internet network. Examiner takes Official notice that Internet network is well known in the art. One of ordinary skill in the art would have been motivated to employ Internet network to send/receive data globally thus providing more efficient and convenient way to perform data transactions.

Claim Objections

3. Duplicate claim 42. Accordingly claims have been renumbered so that claim 43=44, 44=45 and so on. Please make appropriate correction.

Allowable Subject Matter

4. Claims 23-26 are allowed.

Claim 23: Prior art of record does not teach encrypt the second part watermarked with the second identifier with a third key and a key management module to manage the keys as to allow one or more clients to decrypt the encrypted content with a combination of encrypted first and second parts watermarked with the first identifier and second identifier, respectively, unique to each client.

Claims 24-26 are allowed because of dependency.

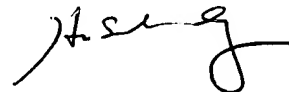
Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Bloom et al.(US 6,332,194).
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 571-272-3857. The examiner can normally be reached on Tue-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HS

A handwritten signature in black ink, appearing to be 'H. S. G.' or similar, written in a cursive style.